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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,006	08/24/2001		Paul W. Dent	4015-1600	3419
24112	7590	03/22/2005		EXAMINER	
COATS & 1	BENNET	TT, PLLC	SING, SIMON P		
P O BOX 5			,		
RALEIGH, NC 27602			ART UNIT	PAPER NUMBER	
				2645	

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summan	09/939,006	DENT, PAUL W.					
Office Action Summary	Examiner	Art Unit					
	Simon Sing	2645					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	<u>_</u> .						
2a) ☐ This action is FINAL . 2b) ☐ This	s action is non-final.						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims		•					
4) Claim(s) is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)☐ Claim(s) is/are rejected.	6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.							
8)⊠ Claim(s) <u>1-35</u> are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	er.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		-(d) or (f).					
1. Certified copies of the priority document							
2. Certified copies of the priority document3. Copies of the certified copies of the priority							
 Copies of the certified copies of the prio application from the International Burea 		ed in this National Stage					
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	d					
·	or the certained copies not receive	u.					
Attachment(s) 1) Notice of References Cited (PTO-892)	"□· · -						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-21 and 32-35, drawn to channel estimate, classified in class 455, subclass 450.
 - II. Claims 22-31, drawn to interference prevention, classified in class 455, subclass 63.1.
- 2. Inventions in Group I and Group II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because a channel estimate does not require a composite signal containing wanted information for a wireless device and canceling unwanted information for other wireless devices. The subcombination has separate utility such as interference cancellation/prevention.

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3. Because these inventions are distinct for the reasons given above and the

search required for Group I is not required for Group II, restriction for examination

purposes as indicated is proper.

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Simon Sing whose telephone number is 571-272-7545.

The examiner can normally be reached on Monday - Friday, 8:30 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Fan Tsang can be reached on 571-272-7547. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

S. Sing

03/18/2005

FAN TSANG

SUPERVISORY PATENT EXAMINER

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